

A Report on
Guest Lecture on Unit Operation in Industry on 16th January, 2021.

Title	<i>Guest Lecture on Unit Operation in Industry</i>
Organizing Department	Department of Chemical Engineering
Institute	Institute of Petrochemical Engineering, Lonere (MH)
Targeted Audience	Final Year students, Chemical Engineering Department
Speaker	Shrinivas Mundkar
Date of Event	16 th January, 2021

Details about Guest Lecture

Delivered expert talk on Unit operations used in chemical / petrochemical industries. Such as distillation, fractional distillation, evaporation, absorption, extraction, drying, filtration, sedimentation, cyclone separator, sieve shaker etc.

Guest Lecture on Unit Operation in Industry

Organized By



Department of Chemical Engineering
Institute of Petrochemical Engineering, Lonere (MH)
on
16th January, 2021

Presented By

Mr. Shrinivas Mundkar
Assistant Professor

Department of Chemical Engineering
Chhotubhai Gopalbhai Patel Institute of Technology,
UKA Tarsadia University, Bardoli, Gujarat



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What is Unit Operation?

A unit operation is a basic step in a process.

Unit operations involve a **physical change** or chemical transformation such as separation, crystallization, evaporation, filtration, distillation, extraction, drying etc.

Subjects Such as

- Fluid Flow Operation – transportation of fluid
- Heat Transfer Operation- Various heat exchangers
- Mass Transfer Operation - absorption, distillation, extraction, adsorption, and drying.
- Mechanical Operation – Crushing equipments, size enlargement, mixing, agitation etc.

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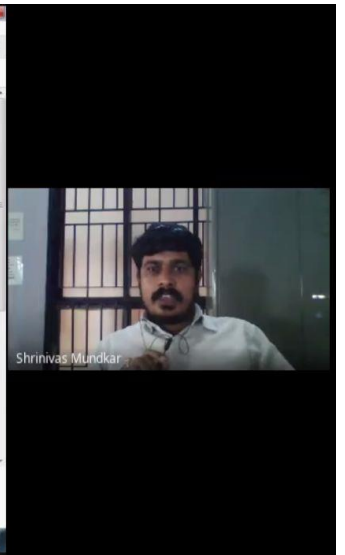
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Lecture with Shrinivas Mundkar

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Rushikesh Jad... Prathmesh Pal... Yash Ganbote abhishek Chas... Ritesh Kadam nikhil meshram

Siddique Taha Omkar Salunke abhishek degi Mahesh Jadhav Dryanashwar... parth vyavahare

Mohan Pagi aditya kumbhar faraz faki Shikrushna Ch... Jeevan Katkar sairaj Shih...

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Evaporation

- Evaporation used in chemical industry for the concentration of a weak liquor (Diluted) to produce a thick liquor (concentrated) by evaporating a portion of solvent.
- Single effect evaporator, Multi effect evaporator.

Separating Mixtures: Evaporation

Mixture (salt and water)

Water

Evaporating dish

Bunsen burner

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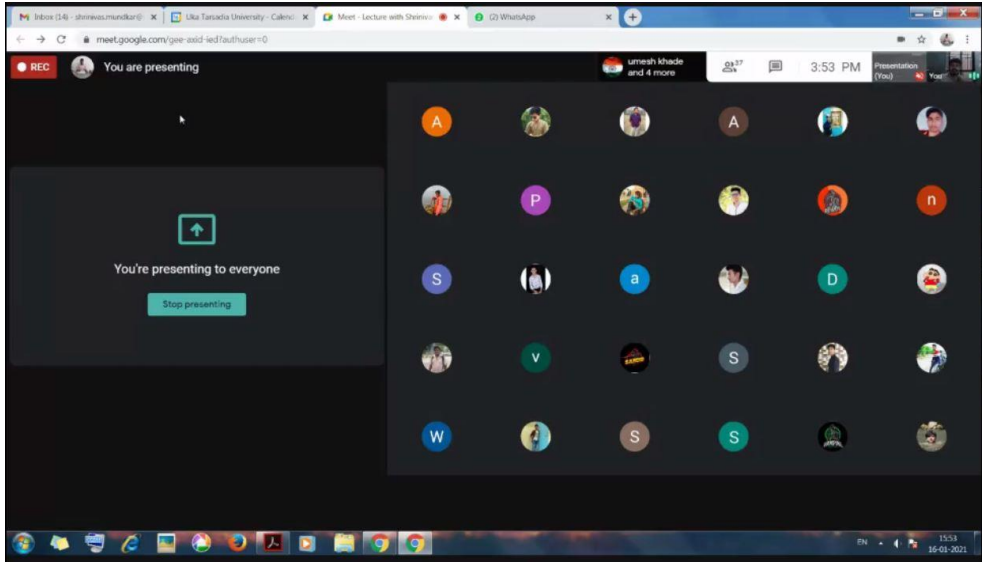
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Extraction (solid-liquid)

- Extraction operation is carried out for the removal of a soluble constituent of solids with the help of a suitable liquid solvent.
- Example- oil seed extraction, extraction of valuable metals from mineral ores.



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